

CITY OF ALBUQUERQUE

Planning Department
Alan Varela, Director



Mayor Timothy M. Keller

February 8, 2023

Ron Hensley, P.E.
THE Group
300 Branding Iron Rd. SE
Rio Rancho, NM 87124

RE: Petroglyph Plumbing
3031 Painted Rock NW
Engineer's Stamp Date: 2/6/2023
Hydrology File: G10D029

Dear Mr. Hensley:

Based upon the information provided in your submittal received 2/6/2023, the Grading & Drainage Plan is approved for Building Permit approval. Please attach a copy of this approved plan in the construction sets for Building Permit processing along with a copy of this letter.

PO Box 1293

PRIOR TO CERTIFICATE OF OCCUPANCY:

Albuquerque

1. Engineer's Certification, per the DPM Part 6-14 (F): *Engineer's Certification Checklist For Non-Subdivision* is required.
2. Please provide the executed paper Drainage Covenant (latest revision) printed on one-side only with Exhibit A and a check for \$25 made out to "Bernalillo County" for the stormwater quality ponds per Article 6-15(C) of the DPM to Hydrology for review. Once the review is done, Hydrology will send back an email stating our approval / comments.

NM 87103

www.cabq.gov

As a reminder, if the project total area of disturbance (including the staging area and any work within the adjacent Right-of-Way) is 1 acre or more, then an Erosion and Sediment Control (ESC) Plan and Owner's certified Notice of Intent (NOI) is required to be submitted to the Stormwater Quality Engineer (Doug Hughes, PE, jhughes@cabq.gov, 505-924-3420) 14 days prior to any earth disturbance.

If you have any questions, please contact me at 505-924-3695 or tchen@cabq.gov.

Sincerely,

Tiequan Chen, P.E.
Principal Engineer, Hydrology
Planning Department, Development Review Services



City of Albuquerque

Planning Department

Development & Building Services Division

DRAINAGE AND TRANSPORTATION INFORMATION SHEET (REV 11/2018)

Project Title: PETROGLYPH PLUMBING **Building Permit #:** _____ **Hydrology File #:** G10
DRB#: _____ **EPC#:** _____ **Work Order#:** _____
Legal Description: TRACT 5A2-A1-4, VOLCANO BUSINESS PARK PHASE 2
City Address: 3031 PAINTED ROCK N.W.

Applicant: THE Group **Contact:** Ron Hensley
Address: 300 Branding Iron Rd. SE, Rio Rancho, NM 87124
Phone#: 505-410-1622 **Fax#:** _____ **E-mail:** ron@thegroup.cc
Owner: PETROGLYPH PLUMBING AND HEATIN **Contact:** Curtis Witham
Address: 8248 Meadowbrook Avenue, Albuquerque
Phone#: 505-352-1169 **Fax#:** _____ **E-mail:** cdwitham@msn.com

TYPE OF SUBMITTAL: _____ PLAT (____# OF LOTS) _____ RESIDENCE _____ DRB SITE ☒ ADMIN SITE

IS THIS A RESUBMITTAL?: _____ Yes ☒ No

DEPARTMENT: _____ TRAFFIC/ TRANSPORTATION ☒ HYDROLOGY/ DRAINAGE

Check all that Apply:

TYPE OF SUBMITTAL:

_____ ENGINEER/ARCHITECT CERTIFICATION
_____ PAD CERTIFICATION
_____ CONCEPTUAL G & D PLAN
☒ GRADING PLAN
_____ DRAINAGE MASTER PLAN
_____ DRAINAGE REPORT
_____ FLOODPLAIN DEVELOPMENT PERMIT APPLIC
_____ ELEVATION CERTIFICATE
_____ CLOMR/LOMR
_____ TRAFFIC CIRCULATION LAYOUT (TCL)
_____ TRAFFIC IMPACT STUDY (TIS)
_____ OTHER (SPECIFY) _____
_____ PRE-DESIGN MEETING?

TYPE OF APPROVAL/ACCEPTANCE SOUGHT:

☒ BUILDING PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY
_____ PRELIMINARY PLAT APPROVAL
_____ SITE PLAN FOR SUB'D APPROVAL
_____ SITE PLAN FOR BLDG. PERMIT APPROVAL
_____ FINAL PLAT APPROVAL
_____ SIA/ RELEASE OF FINANCIAL GUARANTEE
_____ FOUNDATION PERMIT APPROVAL
_____ GRADING PERMIT APPROVAL
_____ SO-19 APPROVAL
_____ PAVING PERMIT APPROVAL
_____ GRADING/ PAD CERTIFICATION
_____ WORK ORDER APPROVAL
_____ CLOMR/LOMR
_____ FLOODPLAIN DEVELOPMENT PERMIT
_____ OTHER (SPECIFY) _____

DATE SUBMITTED: 7/25/22 **By:** THE Group / Ron Hensley

COA STAFF:

ELECTRONIC SUBMITTAL RECEIVED: _____

FEE PAID: _____

DRAINAGE INFORMATION

LOCATION & DESCRIPTION

THE PROPOSED SITE IS AN UNDEVELOPED TRACT ON PAINTED ROCK THAT HAS BEEN PREVIOUSLY GRADED.

FLOODPLAIN STATUS

THIS PROJECT, AS SHOWN ON FEMA'S FLOOD INSURANCE RATE MAP 35001C0103H, DATED NOVEMBER, 2016 IS NOT WITHIN A DESIGNATED 100-YEAR FLOODPLAIN.

EXISTING DRAINAGE

THE SITE DRAINS TO AN EXISTING DRAINAGE EASEMENT AND IS WITHIN THE AREA OF THE MASTER DRAINAGE PLAN OF "G10-D029 VOLCANO BUSINESS PARK" AND IS RESTRICTED TO THE DISCHARGE RATES DEFINED IN THAT REPORT. BASIN 05-1 OF THE REPORT CONTAINS THE SITE AND IS RESTRICTED TO A DISCHARGE 0.50 CFS/ACRE.

DEVELOPED CONDITION

THE SITE WILL BE IMPROVED WITH MANUFACTURED STRUCTURES. THE SITE RUNOFF WILL BE ROUTED TO THE POND DEPICTED TO RETAIN THE MAJORITY (88%) OF THE TOTAL RUNOFF TO RESTRICT DISCHARGE FROM THE SITE TO 0.38 CFS. THE DISCHARGE TO THE DRAINAGE EASEMENT DISCHARGE FROM THE POND WILL BE CONTROLLED WITH A CHANNEL WEIR WITH A PEAK FLOW OF 0.32 CFS.

METHODOLOGY

THE HYDROLOGY FOR THIS PROJECT WAS ANALYZED USING THE WEIGHTED E METHOD.

PRECIPITATION

THE 100-YR 6-HR DURATION STORM WAS USED AS THE DESIGN STORM FOR THIS ANALYSIS WITH A 24 HOUR VOLUME. THIS SITE IS WITHIN ZONE 1 AS IDENTIFIED IN THE CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, CHAPTER 6.

EQUATIONS:
WEIGHTED E = $E_a * A_a + E_b * A_b + E_c * A_c + E_d * A_d$ / (Total Area)
24 HOUR VOLUME = $V_{24} = (P_{24} - P_0) * A_0 = 5,554$ CU.FT.
FLOW = $Q_a * A_a + Q_b * A_b + Q_c * A_c + Q_d * A_d$

TABLE 6.2.13 EXCESS PRECIPITATION, E (IN.) - 6 HOUR STORM				
Zone	A	B	C	D
1	0.55 [0.00, 0.08]	0.73 [0.01, 0.22]	0.95 [0.12, 0.44]	2.24 [0.72, 1.24]

TABLE 6.2.14 PEAK DISCHARGE (CFS/ACRE)				
Zone	A	B	C	D
1	1.54 [0.00, 0.24]	2.16 [0.03, 0.76]	2.87 [0.47, 1.49]	4.12 [1.69, 2.89]

HYDRAULICS

SIDEWALK CUVERT OR 2' CURB OPENING

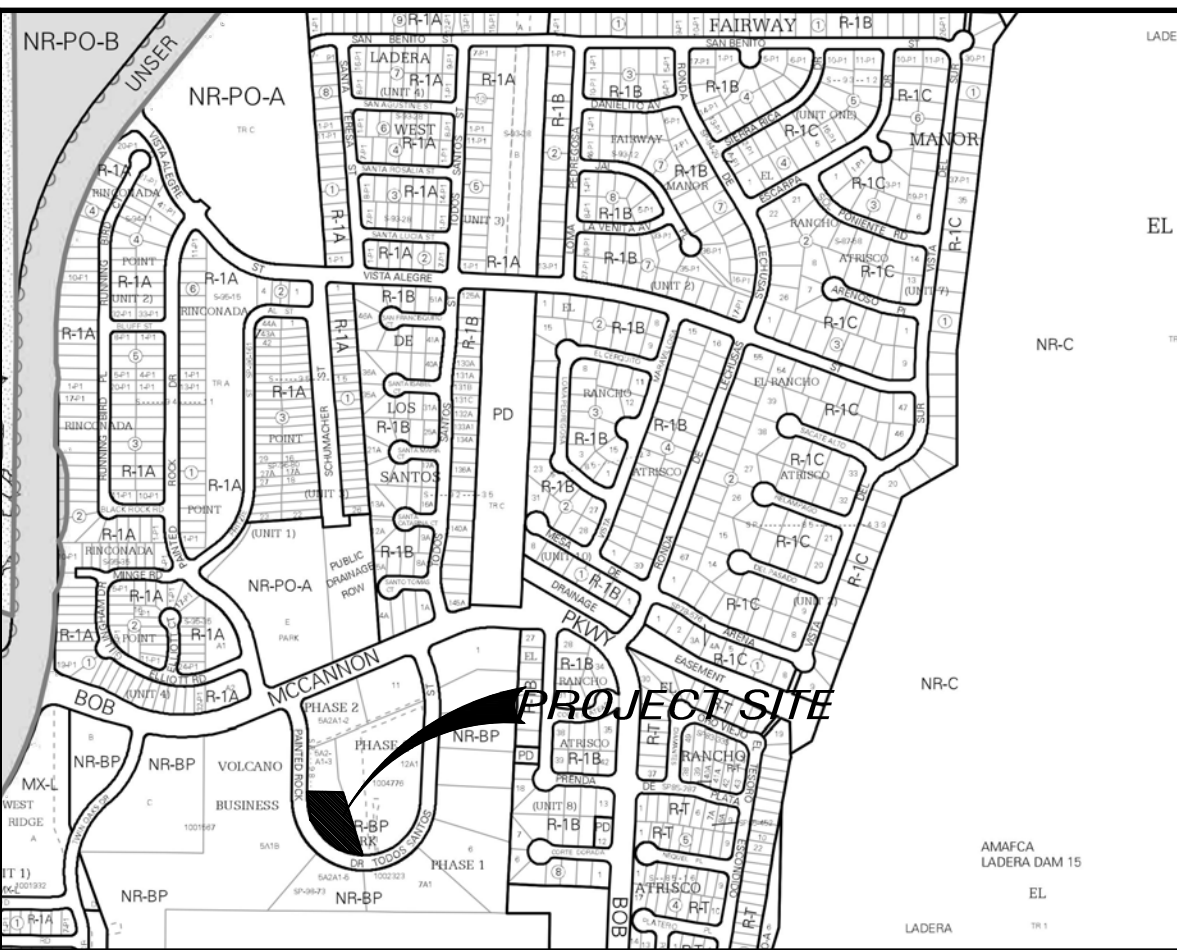
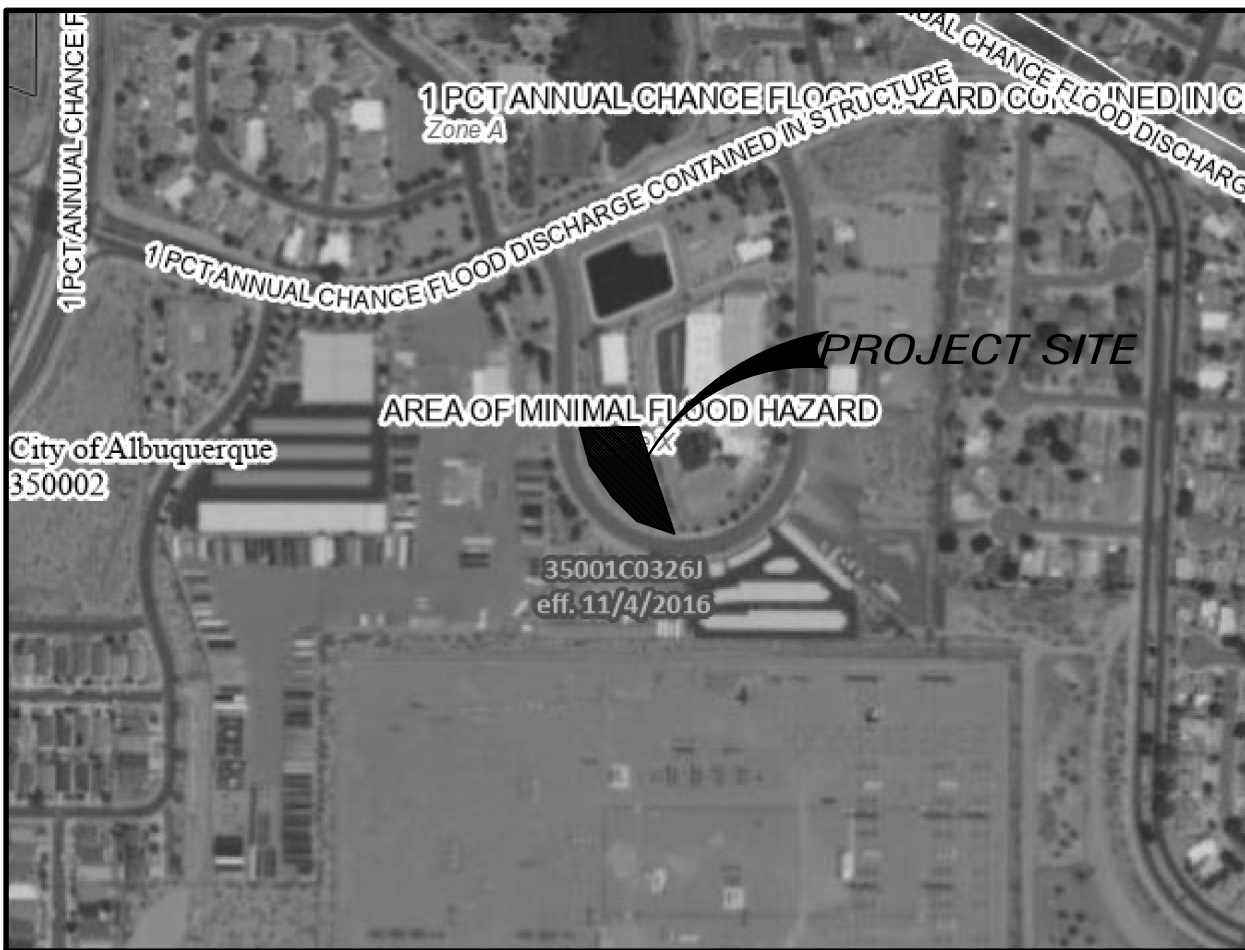
$Q = CLH^{3/2}$

C	WIDTH (L) (ft.)	DEPTH (H) (ft.)	FLOW (Q) (cfs)
2.7	2	0.5	1.91

CIPOLLETTI DISCHARGE WEIR

$Q = CH^{2.5}$ C=2.54*tan(152/2)

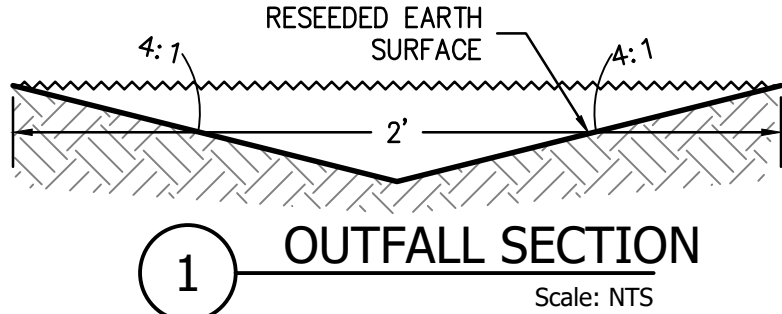
C	WIDTH (L) (ft.)	DEPTH (H) (ft.)	FLOW (Q) (cfs)
10.16	1.34	0.25	0.32



FIRM MAP NO. 35001C0326J

VICINITY MAP G-10-Z

BASIN	AREA (sf)	TREATMENT A % sf	TREATMENT B % sf	TREATMENT C % sf	TREATMENT D % sf	WEIGHTED E	T _b	T _p	VOLUME (cu.-ft.)	FLOW (cfs)	ALLOWED FLOW (cfs)	CFS/AC (cfs)	ALLOWED (cfs/ac)				
EXISTING	33498	100%	33498	0%	0	0%	0	0%	0	0.5500	0.7525	0.2733	1535	1.18	0.38	1.54	0.50
PROPOSED	33498	0%	0	9.6%	3200	24.8%	8308	65.6%	21990	1.7758	0.8687	0.2186	4957	2.79	0.38	3.62	0.50



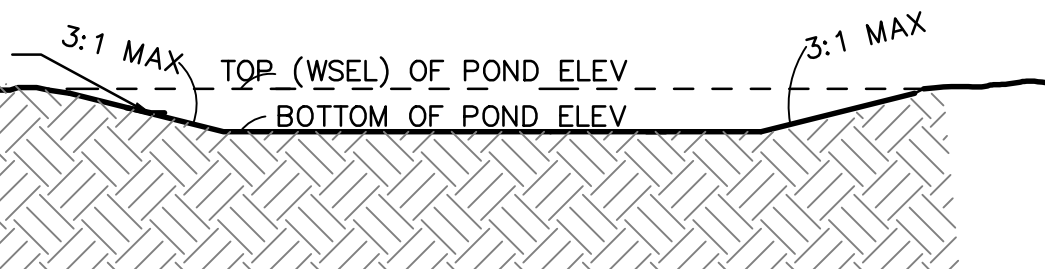
REQUIRED WATER QUALITY VOLUME

SITE DRAINAGE AS DEPICTED ON THIS PLAN SHALL BE MAINTAINED.

SITE DEPICTED HEREON SHALL BE RESPONSIBLE FOR MAINTAINING WATER QUALITY RUNOFF RETENTION ON THE SITE IMMEDIATELY PRIOR TO DISCHARGE. THE VOLUME SHALL BE EQUAL TO:
IMPERVIOUS AREA * 0.42/12 IN CUBIC FEET.

IMPERVIOUS AREA = 21,990 SQ.FT.
REQUIRED VOLUME = 21,990 * 0.42/12 = 770 CU.FT.
VOLUME PROVIDED = 4,067 CU.FT.

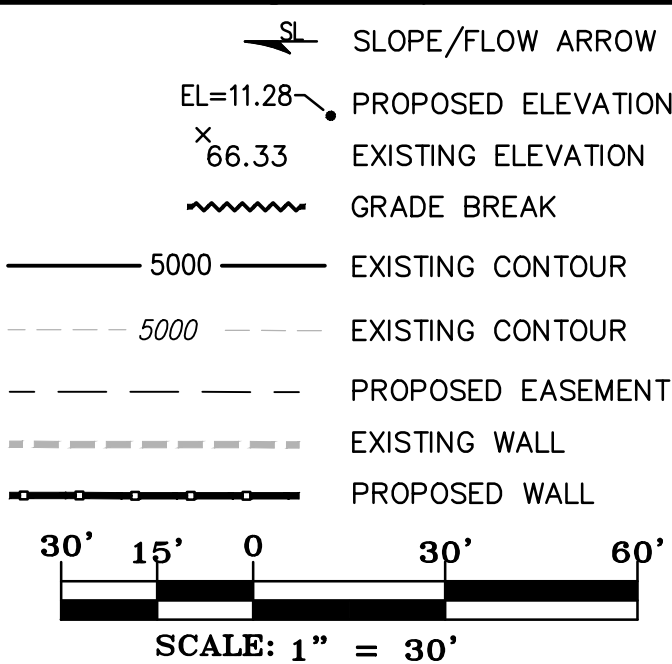
POND SIDES SHALL BE 4-6" COBBLES PLACED 12" DEEP OVER FILTER FABRIC BOTTOM SHALL BE SEED.



EROSION CONTROL NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING RUN-OFF ON SITE DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING ALL SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- REPAIR OF DAMAGED FACILITIES AND CLEANUP OF SEDIMENT ACCUMULATIONS ON ADJACENT PROPERTIES AND IN PUBLIC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXPOSED EARTH SURFACES MUST BE PROTECTED FROM WIND AND WATER EROSION PRIOR TO FINAL (CITY) ACCEPTANCE OF ANY PROJECT.

LEGEND



CONSTRUCTION NOTES

THE ENGINEER HAS UNDERTAKEN LIMITED FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, ARE INTENDED FOR USE ON THIS PROJECT AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE GROUP. IN THE EVENT OF UNAUTHORIZED USE, THE USER ASSUMES ALL RESPONSIBILITY AND LIABILITY WHICH RESULTS.



THE HENSLEY ENGINEERING GROUP
300 BRANDING IRON RD. SE
RIO RANCHO, NEW MEXICO 87124
Phone: (505) 410-1622

DEVELOPMENT MANAGEMENT CONSULTANTS

PROFESSIONAL CONSTRUCTION MANAGERS & CONSULTING ENGINEERS

9320 Menaul Blvd. NE, ste. D
Albuquerque, NM 87112

DMC

Office: (505) 296-7100
Fax: (505) 296-7105

PROJECT ADDRESS
**3031 PAINTED ROCK N.W.
ALBUQUERQUE, NM**

CLIENT'S NAME
PAINTED ROCK

PROJECT NUMBER
C1

PROJECT PROGRESS
PERMIT

DRAWN BY
REH

CHECKED BY / APPROVED BY
REH / REH

DATE
JULY, 22, 2022

SCALE
AS NOTED

SHEET
C1

PROJECT NAME
GRADING AND DRAINAGE PLAN

PROJECT NAME
PAINTED ROCK

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